

Paper No.: \_\_\_\_\_

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

Inventor:       Stephane Frederick JACOB et al  
Title:           **SOLID STATE CONTINUOUS SEALED CLEAN ROOM LIGHT  
                    FIXTURE**  
Filed:           Herewith  
Date:            23 October 2001  
To:             Assistant Commissioner for Patents  
                    Washington, D.C. 20231

Dear Sir:

**ASSOCIATE POWER OF ATTORNEY**

Please recognize the following attorneys as my associate attorneys in respect  
of this application:

<u>Name</u>	<u>Reg. No.</u>	<u>Name</u>	<u>Reg. No.</u>
Jacob E. Vilhauer	24,885	Charles D. McClung	26,568
Dennis E. Stenzel	28,763	Donald B. Haslett	28,855
J. Peter Staples	30,690	William O. Geny	27,444
Tim A. Long	28,876	Nancy J. Moriarty	40,733
Bruce W. DeKock	40,585	Timothy E. Siegel	37,442

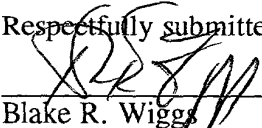
Please direct all telephone calls to Chernoff, Vilhauer, McClung & Stenzel  
LLP at Telephone No. (503) 227-5631. Please direct all faxes respecting this application  
to Chernoff, Vilhauer, McClung & Stenzel LLP at fax number (503) 228-4373. Please  
address all correspondence to:

Chernoff, Vilhauer, McClung & Stenzel LLP  
1600 ODS Tower  
601 S.W. Second Ave.  
Portland, Oregon  
97204-3157 U.S.A.

Respectfully submitted,

By:

Vancouver, B.C.  
CANADA

  
Blake R. Wiggs  
Registration No.: 29,505  
604-669-3432 extn. 217

Applicant or Patentee: Stephane Frederick Jacob et al  
Serial or Patent No.: \_\_\_\_\_ Attorney's Docket No.: T0580040  
Filed or Issued: Herewith  
For: SOLID STATE CONTINUOUS SEALED CLEAN ROOM LIGHT FIXTURE

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY  
STATUS (37 C.F.R. 1.9(f) and 1.27(c)) -- SMALL BUSINESS CONCERN

I hereby declare that I am an official of the small business concern empowered to act on behalf of the concern identified below:

FULL NAME TIR Systems Ltd.  
ADDRESS 3350 Bridgeway Street, Vancouver, British Columbia, Canada V5K 1H9

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 C.F.R. 121.3-18, and reproduced in 37 C.F.R. 1.9(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office, in that the number of employees of the business concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled SOLID STATE CONTINUOUS SEALED CLEAN ROOM LIGHT FIXTURE by inventor(s) Stephane Frederick Jacob and Allan Brent York described in the specification filed herewith.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 C.F.R. 1.9(d) or by any concern which would not qualify as a small business concern under 37 C.F.R. 1.9(d) or a non-profit organization under 37 C.F.R. 1.9(e). \*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 C.F.R. 1.27)

FULL NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
☐ Individual ☐ Small Business Concern ☐ Non Profit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 C.F.R. 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such wilful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING ISSA NAKHLEH  
TITLE OF PERSON OTHER THAN OWNER CHIEF FINANCIAL OFFICER  
ADDRESS OF PERSON SIGNING 1350 EAST 34TH AVENUE  
VANCOUVER B.C. V5W 1A1

SIGNATURE [Signature] DATE Oct 23/2001

Applicant or Patentee: Stephane Frederick Jacob et al  
Serial or Patent No.: \_\_\_\_\_ Attorney's Docket No.: T0580040  
Filed or Issued: Herewith  
For: SOLID STATE CONTINUOUS SEALED CLEAN ROOM LIGHT FIXTURE

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY  
STATUS (37 C.F.R. 1.9(f) and 1.27(b)) -- INDEPENDENT INVENTOR

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 C.F.R. 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled SOLID STATE CONTINUOUS SEALED CLEAN ROOM LIGHT FIXTURE described in the specification filed herewith.

I have not assigned, granted, conveyed or licensed, and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 C.F.R. 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 C.F.R. 1.9(d) or a non-profit organization under 37 C.F.R. 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey or license, any rights in the invention is listed below:

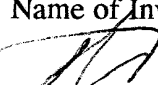
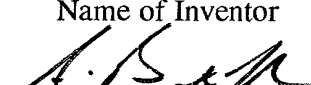
- ☐ no such person, concern or organization  
☒ persons, concerns or organizations listed below\*

NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 C.F.R. 1.27)

FULL NAME TIR Systems Ltd.  
ADDRESS 3350 Bridgeway Street, Vancouver, British Columbia, Canada V5K 1H9  
☐ Individual ☒ Small Business Concern ☐ Non Profit Organization

I acknowledge my duty to file, in this application, or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 C.F.R. 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such wilful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

<u>Stephane Frederick Jacob</u>	<u>Allan Brent York</u>	
Name of Inventor	Name of Inventor	Name of Inventor
		
Inventor's Signature	Inventor's Signature	Inventor's Signature
<u>Oct 23'd 01</u>	<u>OCT. 23, 2001</u>	
Date	Date	Date

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the invention entitled:

**SOLID STATE CONTINUOUS SEALED  
CLEAN ROOM LIGHT FIXTURE**

which is described and claimed in the attached specification.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge my duty to disclose information which is material to the patentability of this invention in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign/PCT Application(s)</u>			Priority Claimed?	
Serial No.	Country	Filing Date	Yes	No

I hereby claim the benefit, under 35 U.S.C. §119(a)-(d), of any United States provisional application(s) that is/are listed below:

U.S. Provisional Patent Applications	
Serial No.	Filing Date

I hereby claim the benefit, under 35 U.S.C. §120, of any United States application(s) or any PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

U.S. Patent Applications			Status (Check One)		
Serial No.	Filing Date	Patented	Pending	Abandoned	

PCT Applications Designating US			Status (Check One)		
PCT No.	Filed	U.S.S.N.	Patented	Pending	Abandoned

I hereby appoint the following attorney(s) and/or agent(s), with full powers of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

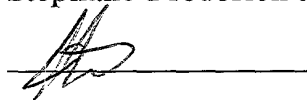
<u>Name</u>	<u>Regn. No.</u>	<u>Name</u>	<u>Regn. No.</u>
Gerald O.S. Oyen	27,280	Thomas W. Bailey	36,411
Blake R. Wiggs	29,505	Gavin N. Manning	36,412
Bruce M. Green	30,524	George F. Kondor	40,477
David J. McGruder	32,375		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole  
or first Inventor:

Stephane Frederick JACOB

Inventor's signature:



Date:

Oct 23rd '01

Residence Address:

1138 Chateau Place  
Port Moody, British Columbia  
Canada V3H 1N6

Citizenship:

Canadian

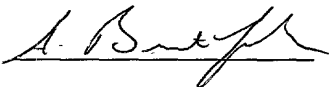
Mailing Address:

c/o TIR Systems Ltd.  
3350 Bridgeway Street  
Vancouver, British Columbia  
Canada V5K 1H9

Full name of  
second Inventor:

Allan Brent YORK

Inventor's signature:



Date:

OCT. 23rd, 2001

Residence Address:

21442-93B Avenue  
Langley, British Columbia  
Canada V1M 1R3

Citizenship:

Canadian

Mailing Address:

c/o TIR Systems Ltd.  
3350 Bridgeway Street  
Vancouver, British Columbia  
Canada V5K 1H9

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE UNDER 37 CFR §3.73(b)**

Applicant : Jacob, Stephane Frederick  
Application No. : \_\_\_\_\_ Filed: Concurrently herewith  
Title : SOLID STATE CONTINUOUS SEALED CLEAN ROOM LIGHT FIXTURE  
(Assignee) : TIR Systems Ltd., a Canadian corporation  
(Type of Assignee, e.g., corporation, partnership,  
university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above.

OR

B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy is attached.
  2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy is attached.
- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☒ Copies of assignments or other documents in the chain of title are attached. (Where one or more of the documents is unrecorded.)

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this Certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date : October 25, 2001  
Name : Charles D. McClung  
Title : Attorney for the Assignee (copy of Power of Attorney is attached)

Signature: 

Chernoff, Vilhauer, McClung & Stenzel, LLP  
1600 ODS Tower  
601 S.W. Second Avenue  
Portland, Oregon 97204-3157  
Tel.: (503) 227-5631

COPY

T0580040  
BRW/bw

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the invention entitled:

**SOLID STATE CONTINUOUS SEALED  
CLEAN ROOM LIGHT FIXTURE**

which is described and claimed in the attached specification.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge my duty to disclose information which is material to the patentability of this invention in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign/PCT Application(s)</u>			Priority Claimed?	
Serial No.	Country	Filing Date	Yes	No

I hereby claim the benefit, under 35 U.S.C. §119(a)-(d), of any United States provisional application(s) that is/are listed below:



U.S. Provisional Patent Applications	
Serial No.	Filing Date

I hereby claim the benefit, under 35 U.S.C. §120, of any United States application(s) or any PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

U.S. Patent Applications			Status (Check One)		
Serial No.	Filing Date		Patented	Pending	Abandoned
PCT Applications Designating US			Status (Check One)		
PCT No.	Filed	U.S.S.N.	Patented	Pending	Abandoned

I hereby appoint the following attorney(s) and/or agent(s), with full powers of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

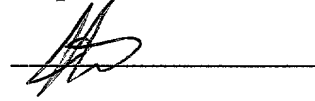
<u>Name</u>	<u>Regn. No.</u>	<u>Name</u>	<u>Regn. No.</u>
Gerald O.S. Oyen	27,280	Thomas W. Bailey	36,411
Blake R. Wiggs	29,505	Gavin N. Manning	36,412
Bruce M. Green	30,524	George F. Kondor	40,477
David J. McGruder	32,375		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole  
or first Inventor:

Stephane Frederick JACOB

Inventor's signature:



Date:

Oct 23rd '01

Residence Address:

1138 Chateau Place  
Port Moody, British Columbia  
Canada V3H 1N6

Citizenship:

Canadian

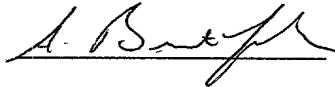
Mailing Address:

c/o TIR Systems Ltd.  
3350 Bridgeway Street  
Vancouver, British Columbia  
Canada V5K 1H9

Full name of  
second Inventor:

Allan Brent YORK

Inventor's signature:



Date:

OCT. 23rd., 2001

Residence Address:

21442-93B Avenue  
Langley, British Columbia  
Canada V1M 1R3

Citizenship:

Canadian

Mailing Address:

c/o TIR Systems Ltd.  
3350 Bridgeway Street  
Vancouver, British Columbia  
Canada V5K 1H9

COPY

T0580040  
BRW/bw

**PATENT ASSIGNMENT**

WHEREAS WE, Stephane Frederick Jacob and Allan Brent York (collectively the "Assignors"), whose addresses are respectively 1138 Chateau Place, Port Moody, British Columbia, Canada V3H 1N6 and 21442-93B Avenue, Langley, British Columbia, Canada V1M 1R3, are the inventors of certain inventions or improvements described and claimed in the application for United States Letters Patent executed concurrently herewith and entitled:

**SOLID STATE CONTINUOUS SEALED  
CLEAN ROOM LIGHT FIXTURE**

AND WHEREAS, TIR Systems Ltd., a British Columbia, Canada corporation (the "Assignee") whose address is 3350 Bridgeway Street, Vancouver, British Columbia, Canada V5K 1H9, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements, and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries;


NOW THEREFORE, in consideration of the sum of ONE (\$1.00) DOLLAR and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, WE, the Assignors, do hereby, both jointly and severally, sell, assign, transfer and set over to the Assignee the entire right, title and interest in and to the said inventions or improvements and said application, and any and all continuations, divisions, renewals of or substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof, and any reissue or reissues of said Letters Patent; and WE assign to and authorize the Assignee to file in our names applications for Letters Patent for said inventions or improvements in all countries, the same to be held and enjoyed by the Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us, had this assignment, sale and transfer not been made;

AND WE hereby covenant that WE have full right to convey the entire interest herein assigned, and that WE have not executed and will not execute any agreement in conflict herewith, and WE further covenant and agree that WE will, each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent, in the Assignee, its successors, assigns, nominees or legal representatives, and WE agree to communicate to the Assignee, or its nominees, all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid the Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit, proper patent protection for said inventions or improvements in any and all countries, all at the expense, however, of the Assignee or its successors, assigns, nominees or legal representatives;

AND WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any official of any country or countries foreign to the United States of America whose duty it is to issue patents on applications as aforesaid, to issue to the Assignee, as assignee of the entire right, title and interest, any and

all Letters Patent for said inventions or improvements, which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this Assignment.

EXECUTED at Vancouver, British Columbia, Canada, this ~~22nd~~ <sup>23rd</sup> day of October 2001.

  
Stephane Frederick Jacob

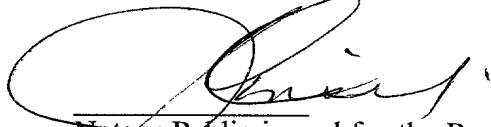
EXECUTED at Vancouver, British Columbia, Canada, this ~~22nd~~ <sup>23rd</sup> day of October 2001.

  
Allan Brent York

NOTARIAL CERTIFICATE

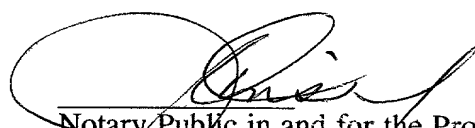
On this ~~22nd~~ <sup>23rd</sup> day of October 2001, before me, personally appeared Stephane Frederick Jacob, known to me to be one of the individuals who executed the foregoing instrument, and who acknowledged to me that he executed the same of his own free will and for the purpose therein set forth.

JACQUELINE D. KINSEY  
Notary Public  
3908 HASTINGS STREET  
BURNABY, B.C. V5C 6C1  
TEL: (604) 299-1220

  
Notary Public in and for the Province of  
British Columbia, Canada.  
My Commission is for life.

NOTARIAL CERTIFICATE

On this ~~22nd~~ <sup>23rd</sup> day of October 2001, before me, personally appeared Allan Brent York, known to me to be one of the individuals who executed the foregoing instrument, and who acknowledged to me that he executed the same of his own free will and for the purpose therein set forth.

  
Notary Public in and for the Province of  
British Columbia, Canada.  
My Commission is for life.

JACQUELINE D. KINSEY  
Notary Public  
3908 HASTINGS STREET  
BURNABY, B.C. V5C 6C1  
TEL: (604) 299-1220